

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1.-14. (cancelled)

15. (currently amended) A recombinant organism comprising a PCR-mediated gene replacement vector comprising:

- (a) a  $\lambda$  *exo* and a  $\lambda$  *bet* nucleotide sequences encoding bacteriophage  $\lambda$  Red recombinase;
- (b) a  $\lambda$  *gam* nucleotide sequence encoding bacteriophage anti-RecBCD;
- (c) a *Ptac* promoter sequence operably linked to the nucleotide sequence of (a) and (b); and
- (d) a nucleotide sequence encoding LacI operably linked to its native promoter; and
- (e) at least one origin of replication sequence which confers low copy number on the vector.

wherein the recombinant organism is a pathogenic species ~~the vector of any one of claims 9-14.~~

16.-20. (cancelled)

21. (currently amended) The pathogenic species recombinant organism of claim 15 ~~claim 20~~ which is a pathogenic *Escherichia coli*.

22. (currently amended) The pathogenic species recombinant organism of claim 21 which is enterohemorrhagic *E. coli* (EHEC) or enteropathogenic *E. coli* (EPEC).

23. (currently amended) The pathogenic species recombinant organism of claim 15 which is of the genus *Pseudomonas*.

24. **(currently amended)** The pathogenic species recombinant organism of claim 23, which is *Pseudomonas aeruginosa*.

25. **(currently amended)** The pathogenic species recombinant organism of claim 15 which is of the genus *Mycobacterium*.

26. **(currently amended)** The pathogenic species recombinant organism of claim 25, which is *Mycobacterium tuberculosis*.

27. – 43. **(cancelled)**

44. **(new)** The vector of claim 15, wherein the at least one origin of replication sequence is temperature sensitive.

45. **(new)** A recombinant organism comprising a PCR-mediated gene replacement vector comprising:

- (a) a  $\lambda$  *exo* and a  $\lambda$  *bet* nucleotide sequences encoding bacteriophage  $\lambda$  Red recombinase;
- (b) a  $\lambda$  *gam* nucleotide sequence encoding bacteriophage anti-RecBCD;
- (c) a *Ptac* promoter sequence operably linked to the nucleotide sequence of (a) and (b); and
- (d) a nucleotide sequence encoding LacI operably linked to its native promoter; and
- (e) at least one origin of replication sequence which confers low copy number on the vector,

wherein the recombinant organism is enterohemorrhagic *E. coli* (EHEC) or enteropathogenic *E. coli* (EPEC).

46. **(new)** A recombinant organism comprising a PCR-mediated gene replacement vector comprising:

- (a) a  $\lambda$  *exo* and a  $\lambda$  *bet* nucleotide sequences encoding bacteriophage  $\lambda$  Red recombinase;
- (b) a  $\lambda$  *gam* nucleotide sequence encoding bacteriophage anti-RecBCD;

- (c) a *Ptac* promoter sequence operably linked to the nucleotide sequence of (a) and (b); and
- (d) a nucleotide sequence encoding LacI operably linked to its native promoter; and
- (e) at least one origin of replication sequence which confers low copy number on the vector,

wherein the recombinant organism is *Pseudomonas aeruginosa*.

47. (new) A recombinant organism comprising a PCR-mediated gene replacement vector comprising:

- (a) a  $\lambda$  *exo* and a  $\lambda$  *bet* nucleotide sequences encoding bacteriophage  $\lambda$  Red recombinase;
- (b) a  $\lambda$  *gam* nucleotide sequence encoding bacteriophage anti-RecBCD;
- (c) a *Ptac* promoter sequence operably linked to the nucleotide sequence of (a) and (b); and
- (d) a nucleotide sequence encoding LacI operably linked to its native promoter; and
- (e) at least one origin of replication sequence which confers low copy number on the vector,

wherein the recombinant organism is *Mycobacterium tuberculosis*.